

MOLYKOTE® D-7620

Anti-Friction Coating

Heat-curing dry-film lubricant

Features

- Outstanding lubrication properties
- High compressive strength
- High-temperature resistance
- Resistant to oils, greases and solvents
- Avoidance of fretting corrosion
- High abrasion resistance
- No intentional polytetrafluoroethylene (PTFE) or per- and polyfluoroalkyl substances (PFAS)

Composition

- Solid lubricants
- Organic binder
- Organic solvents

Applications

For metal/metal combinations with slow to moderately fast movements and moderate to high loads. Suitable for highly stressed sliding areas with low sliding speeds, oscillating movements or intermittent operations. For permanent lubrication at high temperatures and also where oils and greases cannot be used. Used successfully for cylinder head gaskets and exhaust manifold gaskets of combustion engines.

How to use

Surface preparation

First, clean and degrease the surface which will be coated with MOLYKOTE® D-7620 Anti-Friction Coating. Phosphating and/or sandblasting (180 grit – 80 µm) increase the adhesion and service life.

How to apply

Stir the anti-friction coating thoroughly before applying by brushing, roller-coating or coil-coating.

Recommended dry-film thickness: 5 to 20 µm.

Coverage

When applied at 15 µm dry-film thickness, MOLYKOTE® D-7620 Anti-Friction Coating has coverage of approx. 13 m²/kg (this value does not consider the losses during the application process).

Typical properties

Specification writers: These values are not intended for use in preparing specifications. Please contact your local MOLYKOTE® sales representative prior to writing specifications on this product.

Standard ⁽¹⁾	Test	Unit	Result
	Color		Grayish black
	Service temperature range	°C	-70 to +300

Physical properties

ASTM D1084, Method B	Dynamic viscosity at 23°C	mPas	1,300
DIN 51753	Density at 23°C	g/ml	1.2
ASTM D56	Flash point	°C	40

Load-carrying capacity, wear protection, service life

ASTM D2625	Falex load-carrying capacity ⁽²⁾	N	p=14,500
ASTM D2714	LFW-1, rotating ⁽²⁾ , F=2,860 N, n=72 rpm, v=7.9 m/minutes no. of revolutions x1,000 to µ=0.1		p=20
ASTM-D2714	LFW-1, oscillating ⁽²⁾ , F=980 N, frequency=89.5 osc./minutes no. of oscillations x1,000 to µ=0.08		p=57

⁽¹⁾ASTM: American Society for Testing and Materials. DIN: Deutsche Industrie Norm.

⁽²⁾Surface pretreatment: p=phosphated, s=sandblasted.

Thinner

Recommended thinner is MOLYKOTE® 7415 Thinner.

Curing

Optimum curing schedule: 30 minutes at 220°C (object temperature).

Handling precautions

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION.

Usable life and storage

When stored at or below 23°C in the original unopened containers MOLYKOTE® D-7620 Anti-Friction Coating has a usable life of 24 months from the date of production.

Packaging

This product is available in different standard container sizes as shown on molykote.com. Detailed container size information should be obtained from your nearest MOLYKOTE® sales office or MOLYKOTE® distributor.

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